FINAL REPORT DATA MANAGEMENT STUDY APPENDIX P

CONTRACTOR DATA REQUIREMENTS RELATED PROJECT INTERFACES (RP)

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DATA MANAGEMENT AND CONTROL TASK

VOYAGER SPACECRAFT SYSTEM PROJECT

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Pasadena, California

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INTRODUCTION

1.1 DEFINITION - RELATED PROJECT INTERFACES

These data provide technical, administrative, and managerial information on related space programs and information regarding their effects on the Voyager Project. They identify plans, procedures, and management and technical techniques necessary to ensure dissemination and consideration of all related interface criteria.

1.2 SCOPE

Data items listed in this report reflect the mechanism by which a contractor would identify, acquire, and disseminate information about other space programs that might have an impact on Voyager.

The related project information subjects and their sources listed herein for reference represent the major areas of interest identified by the responsible managers of each functional management category. This information will normally be included in a contractor response to DRD RP-002, "Specification, Project Related Information, Identification and Acquisition," which places a requirement on a contractor's agency for a continuous search, abstracting, and indexing of the subjects specified and their identified sources.

Obtaining information and documents from the normal sources, such as NASA's STAR, RATR, PRINCE/APIC; DOD's TAB, IDEP, and ECRC, present no problems. It should be noted, however, that several of the subjects such as Acceptance Criteria, Appraisal Reports, Audit Reports, Design Review Results, Lessons Learned Reports, and Flight Results, about which current information would be valuable, are not available through these normal channels. It is suggested that a mechanism be established by NASA to provide these kinds of information to Voyager contractors. For example, contracts could require the submission of these kinds of documents to the proper agencies or to the Voyager Program/Project Office who would provide Indexes/Abstracts to Voyager contractors. Additionally, techniques could be provided by which a contractor would request, with authorization based on need-to-know and proprietary restrictions, and obtain information directly from other programs and contractors.

1.3 SUBJECTS

Acceptance criteria used for aerospace equipments.

Appraisal reports concerning contractor, suppliers, and vendor performance.

Audit team reports concerning contractors, suppliers, and vendors.

Bladders, flexible and metallic - New developments, performance reports, and test data.

Boosters - New developments, test data, and performance reports.

Cameras, television - New developments, new applications, test data, and performance reports.

Competitive program concepts - Information concerning application and objectives of these concepts.

Configuration management - Techniques, systems, procedures.

Control systems - New developments, applications, test data, and performance reports.

Cost comparison - Information concerning the cost ratios between the various functional management categories.

Customer directives - Customer-released information concerning scheduling, organization, organizational changes, finance, procurement, etc.

Data management - Techniques, systems and procedures.

Design reviews - Information concerning the results of the design reviews of other programs.

Design standards - Information concerning the standards for design used on other programs.

Detection devices (Cosmic dust, ion, noise, trapped radiation, radio frequency, solar radiation). New developments, application, test data and performance reports.

Failure reports, analyses, histories - Reports from other programs which may influence the design of Voyager and which may influence the reliability assessments and predictions.

Feasibility analyses - Information concerning the results of the analyses of proposed projects.

Flight environments - Space environments encountered and the findings thereof.

International Space Board Standards Agreements - Reports of these agreements such as allocated frequencies, nuclear fallout, etc.

Lessons learned - Information concerning successful as well as unsuccessful experiences of other projects including those of management and equipment.

Life data - Information concerning length-of-life histories of parts, components, and equipments used on other projects.

Life detection - Information concerning new developments, techniques, equipments, and findings related to life in space or other planets.

Magnetometers - New developments, applications, test data, and performance reports.

Maintainability analyses - Reports concerning maintainability concepts, problems, resolutions, etc.

Manned mission reports - Reports of findings, problems, resolutions, etc., which might effect future manned Mars missions.

Manned mission comparisons - Information concerning the progressive development of manned versus unmanned missions and the impact of one on the other.

Manufacturing techniques - New developments, applications, machinery, and processes.

Materials - New developments, applications, and results.

Mariner flights - Information concerning the results of the sequence of Mariner flights.

Parts Data - Data concerning qualification, history, failure rates, etc.

Planetary astronomy - Reports of techniques, equipments, study results, new projects, etc.

Probes, plasma - New developments, application, performance, and test data.

Process - Information on new process development and application.

Profiles, environmental - Reports on profiles encountered by spacecraft and spacecraft performance as a result of these environments.

Propellants - Information concerning new developments, systems, applications, orientation, design, performance, and test data. Includes monopropellants, solid propellants, and bipropellants.

Propulsion, exhaust effects - Information concerning the effect of exhaust fumes on surrounding material and equipments.

Pyrotechnic devices - New developments, test data, and performance reports.

Qualification data and status - Reports concerning the qualification of parts, materials, processes, components, and equipments used on other programs.

Radiation - Reports concerning the effect of radiation on spacecraft and its components.

Radiometer (IR, microwave) - New developments, applications, test data, and performance results.

Reliability techniques - Information concerning new developments in the performance of reliability assessment, prediction, and models, including information on successful reliability plans.

Reproduction, graphic - Equipment, techniques, procedures.

Separation devices - Information concerning flight experience of the various types of devices.

Sounders, ionospheric - New developments, applications, performance result, and findings.

Space environments - Results and findings of all space shots related to their encountered environments.

Space science and technologies - Information on new developments and results of space shots and applications.

Spectrometers (UV, gamma ray) - New developments, applications, test data, and performance results.

Sterilization - Information concerning developments, performance results, design, materials, and processes.

Surface tension devices - New developments, application, test data, and performance results.

Telescope, cosmic ray - Applications, findings, and performance results.

Telemetry systems - Information concerning new developments, test data, and performance results.

Test equipment - New developments, new equipments, and new techniques.

Test reports - Reports of tests on equipments, components, parts, materials, and processes.

Thermal coatings - New developments, materials, performance results, and test data.

Thrust chambers - New developments, performance results, and test data.

1.4 SOURCES

Following are suggested sources of information:

Government

NASA

Scientific and Technical Aerospace Reports (STAR) Tech Briefs Technology Utilization Reports Technology Surveys Technical Notes Technical Memorandums **Contractor Reports** Technical Translations Technical Publications **Technical Reports** International Aero-Space Abstracts PRINCE/APIC Space Activities Summaries FACTS Space Measurement Survey Reports **Budget Estimates** Report to the Space Science Board NASA Centers Reliability Abstracts and Technical Reviews (RATR) Index to Management Issuances (NHB 1410.5)

DOD

Defense Document Center (DDC)
Technical Abstracts Bulletin (TAB)
Document Indexes

Miscellaneous

Interservice Data Exchange Program (IDEP)
Electronic Component Research Center (ECRC)
Congressional Record
Congressional Committee Reports
National Science Advisory Council Reports

Professional Society Proceedings

Commercial

Space Log (TRW)
Commerce Business Daily
DMS Market Intelligence Reports
Space Business Daily
Missile/Space Daily
Aviation Week
Technology Week
Astronautics and Aeronautics

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GE-MSD Documents Library
Technical Reports Abstract Bulletin
Technical Information Series (TIS) Reports
Project Document Control Center
Internally prepared project information
Technical Memos
Technical Reports
Technical PIR's

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DATA ITEM NUMBER	DATA ITEM RELATED PROJECT INTERFACES	DESCRIPT
RP- 001	Plan, Identification, Acquisition, and Dissemination of Related Project Information	Specifies the techniques, responsibilities, provide project-related information.
RP- 002	Specification, Project Related Information Identification and Acquisition	Establishes the requirements for providing abstracting and indexing of specified subje by a library function.
RP- 003	Index, Technical Documentation of Voyager Significance (Bi-Weekly)	Provides list and abstracts of technical do subjects, from selected sources, which ma
RP- 004	Index, Technical Documentation of Voyager Significance (Quarterly Cumulative)	Provides the same information as RP-003 contained in the seven previous bi-weekly
RP- 005	*Request, Technical Information Document	A two-part form by which documents are request-filled report. Functional approva
RP- 006	*Request, Subject Search	A form to be used to request a complete so Functional approval (A) as appropriate.
RP- 007	*Abstract File	Provides a reference file of abstracts by author, and date.
RP- 008	*Report, Information Contact	Provides a procedure for disseminating in concerning related projects. Functional a
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^{*} KEY INFORMAL DATA

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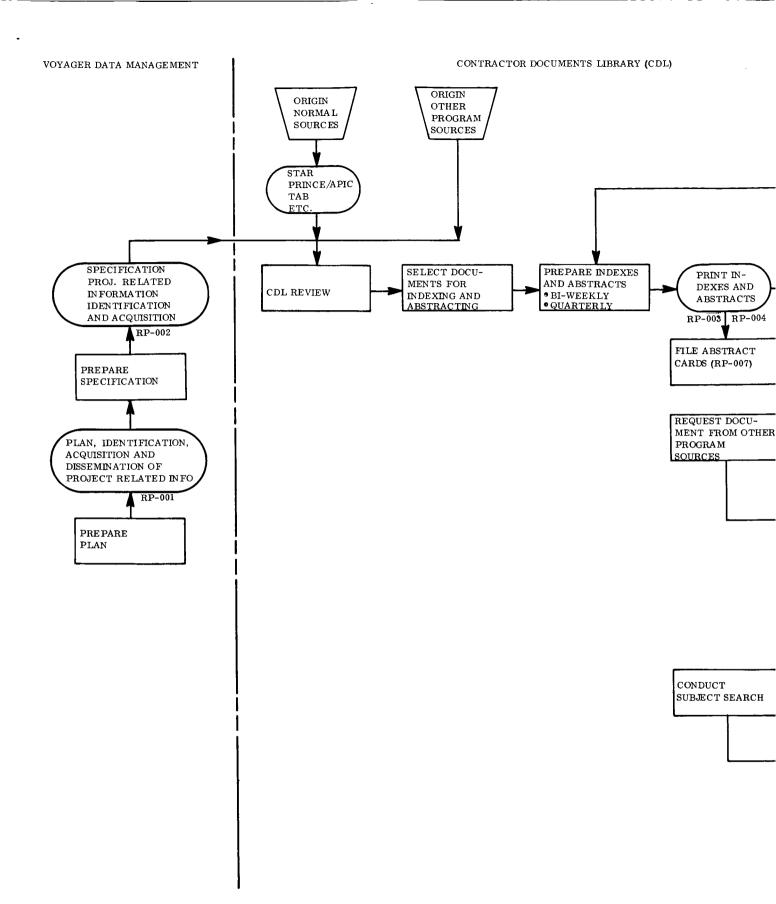
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USER FLOW DIAGRAMS

Contractor - user flow diagrams show the relationship between Voyager system documentation and the activities undertaken by the prime spacecraft contractor. The diagrams are intended to be a communication tool which describes the project in terms which emphasize documentation and as a planning tool for the integration of data management activities into the overall project management scheme.

The project is considered in a generalized sense, in that subsystems and components are each treated as collective entities; that is, the documentation flows associated with the several subsystems are not distinguished. A single representative flow is presented.



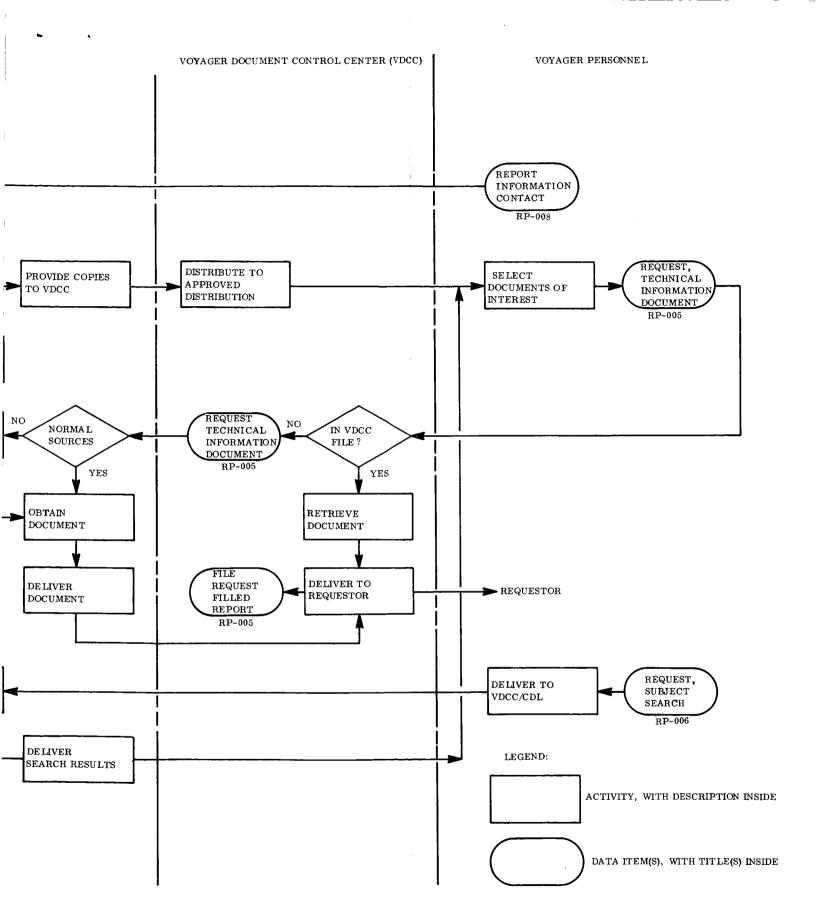


Figure P-1. Related Project Interfaces User Flow Diagram

Related Project Interface Data Requirement Descriptions

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RP-002	Specification, Project Releated Information Identification and Acquisition
RP-003	Index, Technical Documentation of Voyager Significance (Bi-Weekly)
RP-004	Index, Technical Documentation of Voyager Significance (Quarterly Cumulative)
RP-005	*Request, Technical Information Document
RP-006	*Request, Subject Search
RP-007	*Abstract File
RP-008	*Report, Information Contact

^{*}Key Informal Data

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2.	Scope and applicability - what, how, and whom the function covers.
3.	General policies and procedures
4.	Organization and responsibilities (includes interface and requirements placed on contractor library)
5.	Administration

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6. Appendixes

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OUTLINE OF CONTENTS: 1. Scope 2. Applicable documents 3. Requirements a. Frequency of search, abstracting, and indexing b. Subjects about which search, etc., will be performed c. Sources to be searched for information d. Abstract requirements e. Indexing requirements f. Filing requirements g. Requesting requirements h. Retrieval requirements	

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	VOYAGER DATA REQUIREMENT DESCRIPTION - 2ND SHEET
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5. Name of firm, center, government agency, or professional society6. Project name	
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8. Related information	
Notes: 1. No proprietary information shall be solicited or received. 2. Report shall contain no classified or sensitive information.	

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DOCUMENTATION RELATIONSHIP TREES

A documentation relationship tree has been prepared to further develop the data base interrelationships by identifying and presenting pictorially the relationships of all Voyager contractor data items within each functional category and by showing their relationships across categories.

Relationships within the functional category are shown by constructing a tier pattern beginning with the top-level (or governing) data item and relating, in descending order, all data items within the category to this top-level data item. (The location of a data item at a given level on the diagram does not necessarily indicate the importance of that specific item but identifies and defines its relation to all other data items in that category.)

Relationships between data items in one category and data items in other functional categories are shown by (1) arrows to indicate the direction of the relationship, and (2) an alphabetic code to indicate the nature of the interrelationship as follows:

- a. Data items needed for preparation and/or support of the referenced item. (I)
- b. Data items supported or needed by this data item. (S)
- c. Data items that relate "to" and provide information of a general nature but are not required in an input or support role. (G)

Each data item appearing on the Data Item List (DIL) was examined and evaluated with respect to its contribution to, or dependence on, data items appearing in other categories, and is included in the diagrams.

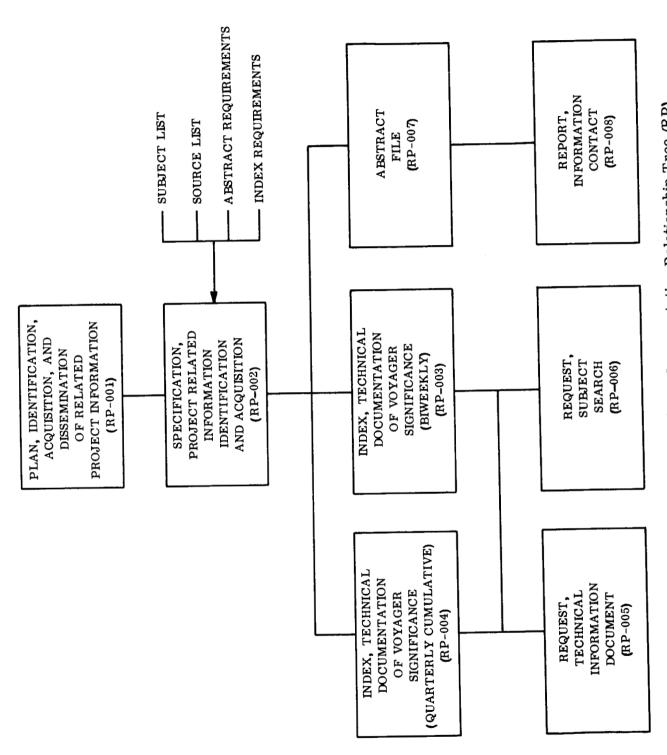


Figure P-2. Related Project Interfaces Documentation Relationship Tree (RP)

DATA ITEM PHASING/FREQUENCY

The data item frequency and phasing chart shows the requirements for contractor data item preparation by major project review periods. It is concerned with the phasing and frequency of preparation of each individual data item and not the total number of copies required for reproduction and distribution.

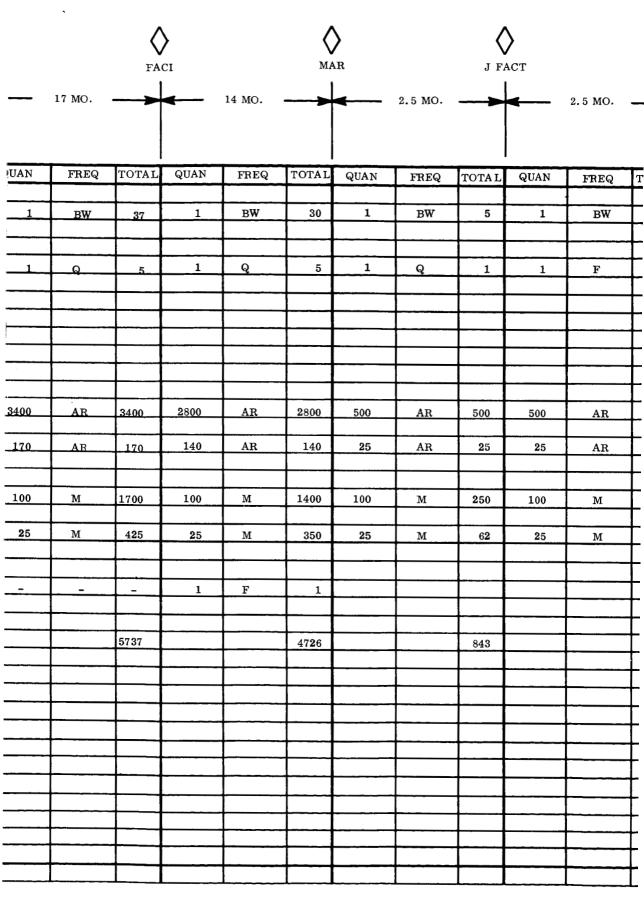
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MO	Monthly	N/R	New and revised
B/W	Biweekly	SDR	System design review
B/M	Bimonthly	PDR	Preliminary design review
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\mathbf{U}	Update	FACI	First article configuration inspection
I/U	One update	MAR	Mission acceptance review
DA	Daily	JFACT	Joint flight acceptance composite testing

DATA ITEM TITLE RELATED PROJECT INTERFACES

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	₹ sr	SDR			PDR H) R	CD	CDR	
3.5 MO.			3.5 MO.	-		9 MO.		←	12 MO.		4
FREQ	TOTAL	QUAN	FREQ	TOTAL	QUAN	FREQ	TOTAL	QUAN	FREQ	TOTAL	6
	<u> </u>				1	ВW	20	1	BW	26	
					1	Q	3	1	<u>ව</u>	4	
					1	I	1				
					1800	AR	1800	2400	AR	2400	
					90	AR	90	120	AR	120	
					100	M	900	100	M	1200	
					25	М	225	25	M	300	
					1	I	11	1	U	1	
							3040			4051	
	+		 		 	 	 		+	+	H



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Figure P-3. Related Project Interfaces Data Item Phasing and Frequency Matrix